15

5

10

ABSTRACT

A method applicable in the field of electric light source technology for thoroughly eliminating "Electrophoresis effects" of a DC fluorescent lamp tube is used for the DC fluorescent lamp. It is characterized by that this method involves changing the relative positions and structures of the cathode and anode of the lamp tube solely and/or simultaneously, coating a euphotic infrared film on either inside or outside wall at the cathode end of the lamp tube, placing mercury-absorbed material into the vent-pipe at the anode end, assembling a heat-preservation sealed encloser with high transparency under the lampshade and charging krypton gas and xenon gas accounting for 20-60% of the total volume of inert gases with volumeter. The method can thoroughly eliminate "Electrophoresis effects" of DC fluorescent lamp tube and has solved the extremely difficult problem in the world, and prolonged the working life of the lamp tube, with the advantages of simple structure and low cost.





